

**FIG. 1 – FOURIER TRANSFORM IR (FTIR) MICHELSON
INTERFEROMETER (BACKGROUND ART)**

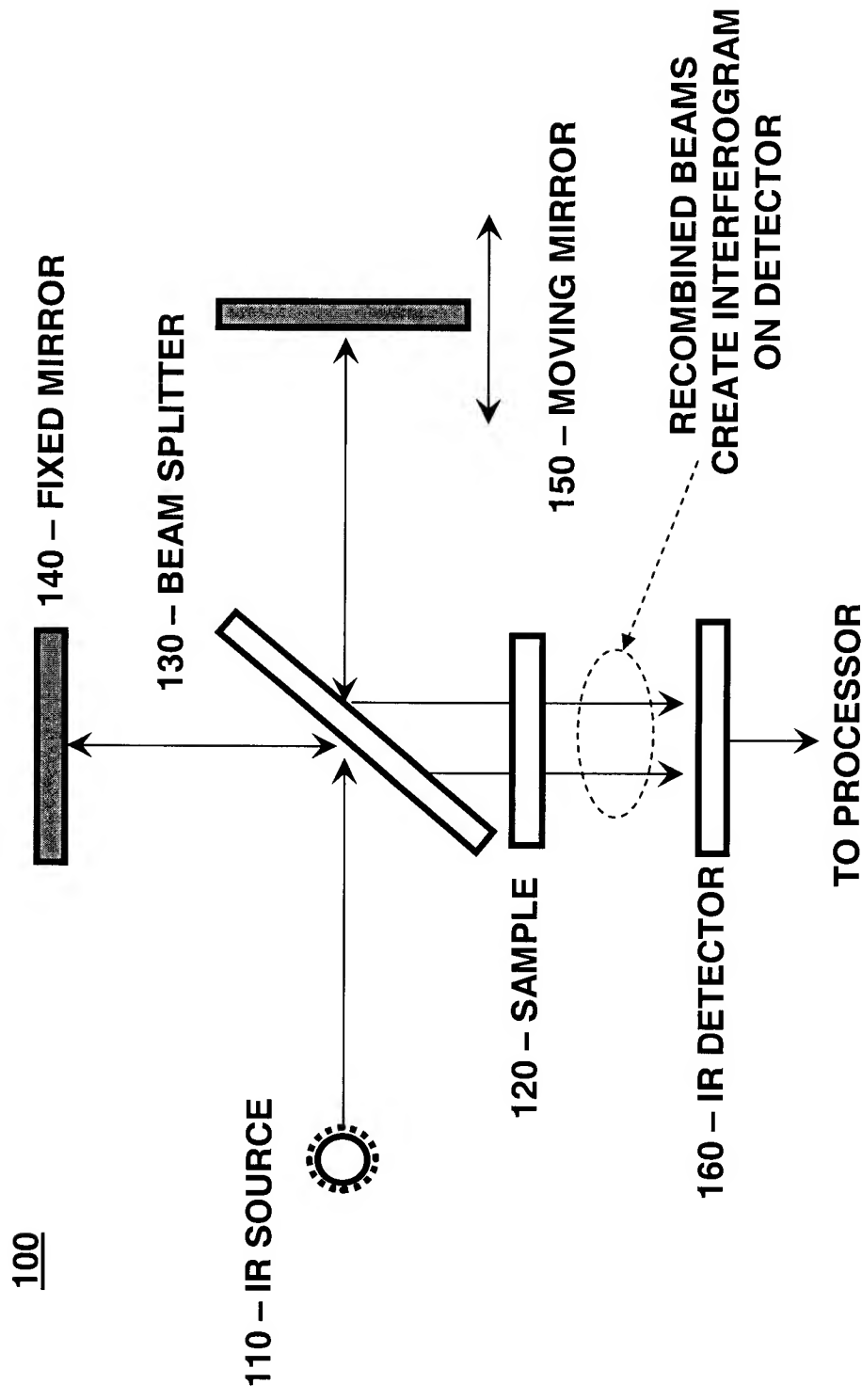


FIG. 2
INTERFEROMETRIC SPECTROSCOPY USING NO MOVING PARTS
(BACKGROUND ART)

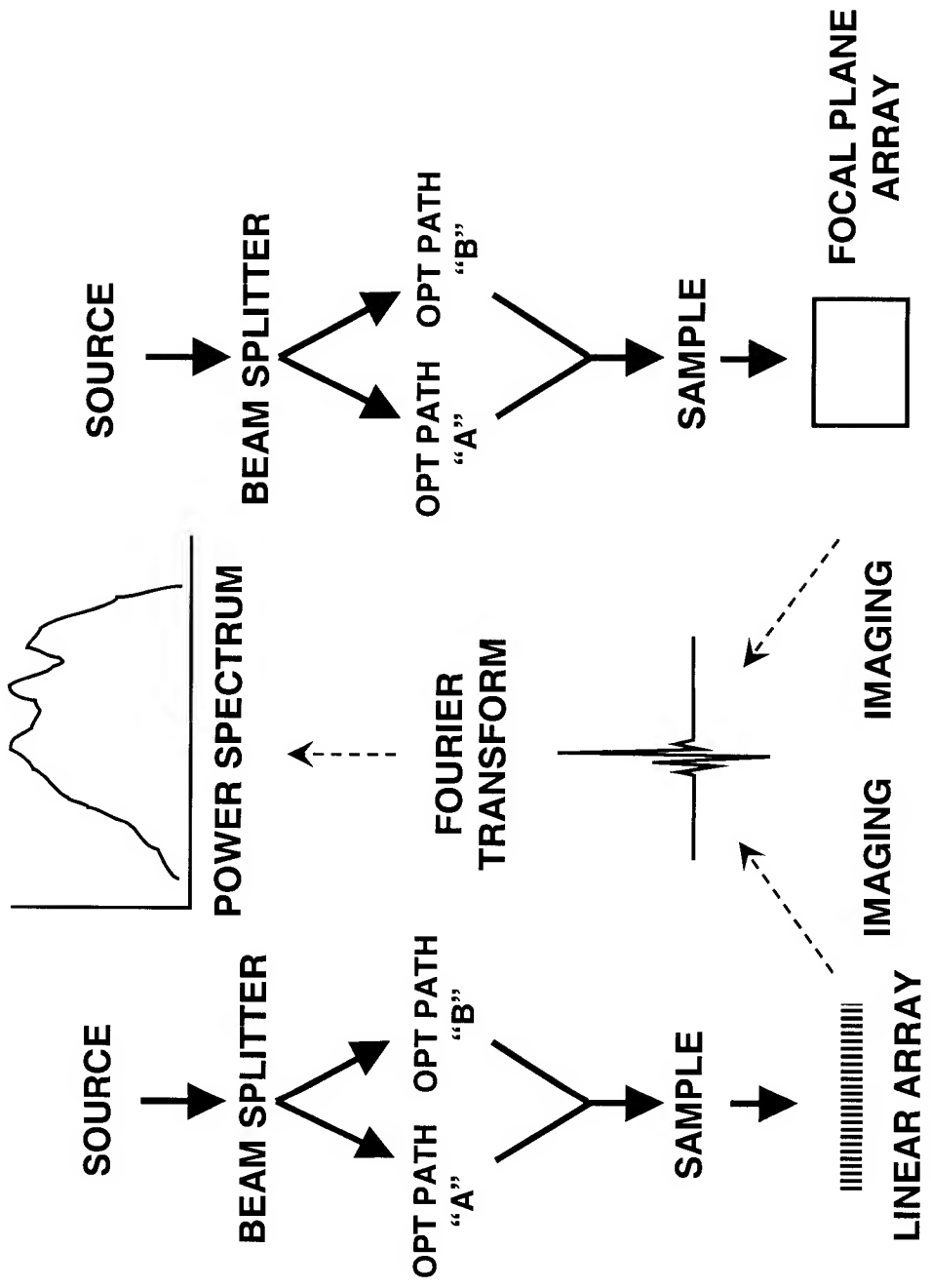


FIG. 3A

NON-INTERFEROMETRIC IR SPECTROSCOPY USING NO MOVING PARTS

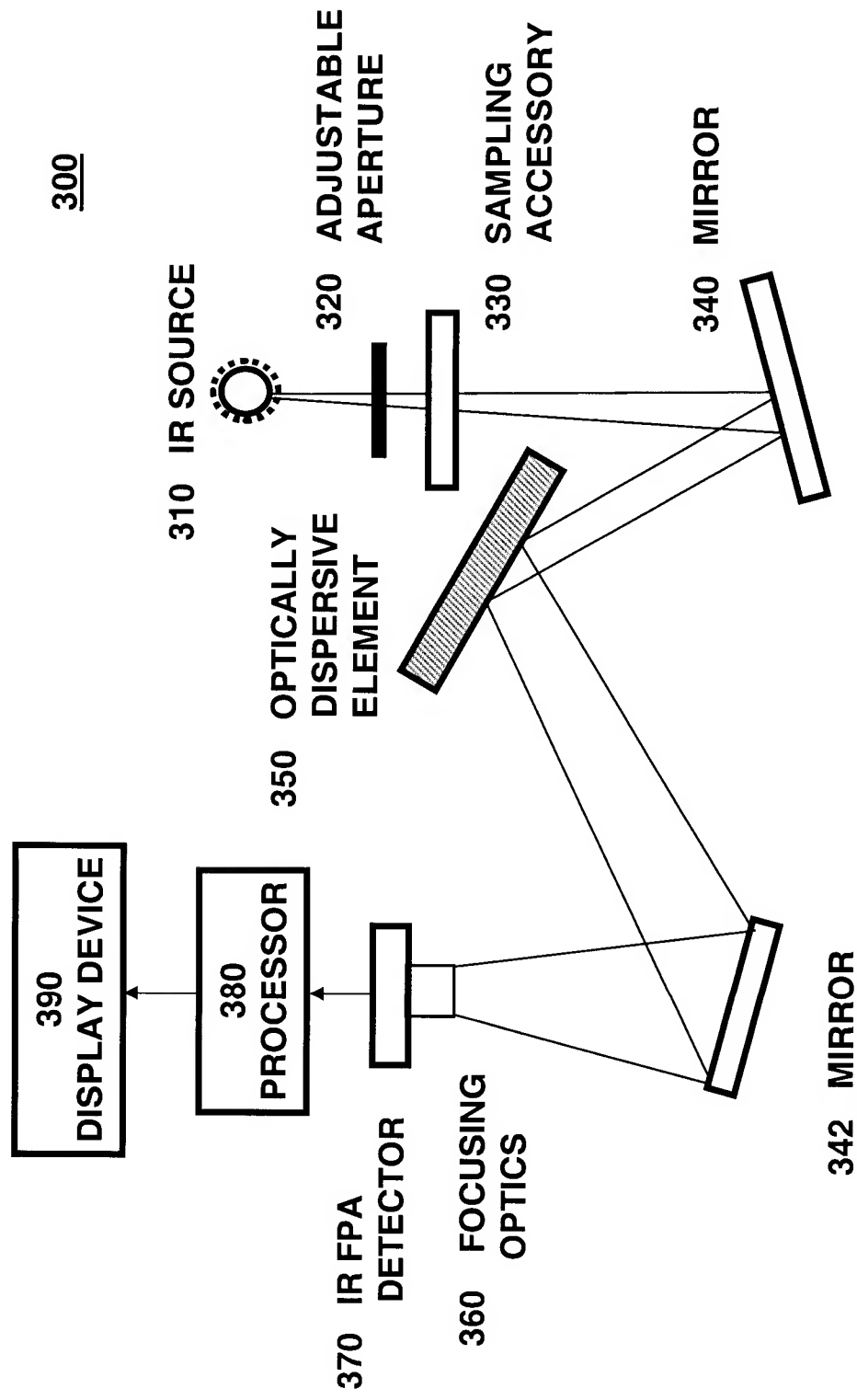


FIG. 3B

MULTIPLE SOURCES/SAMPLES

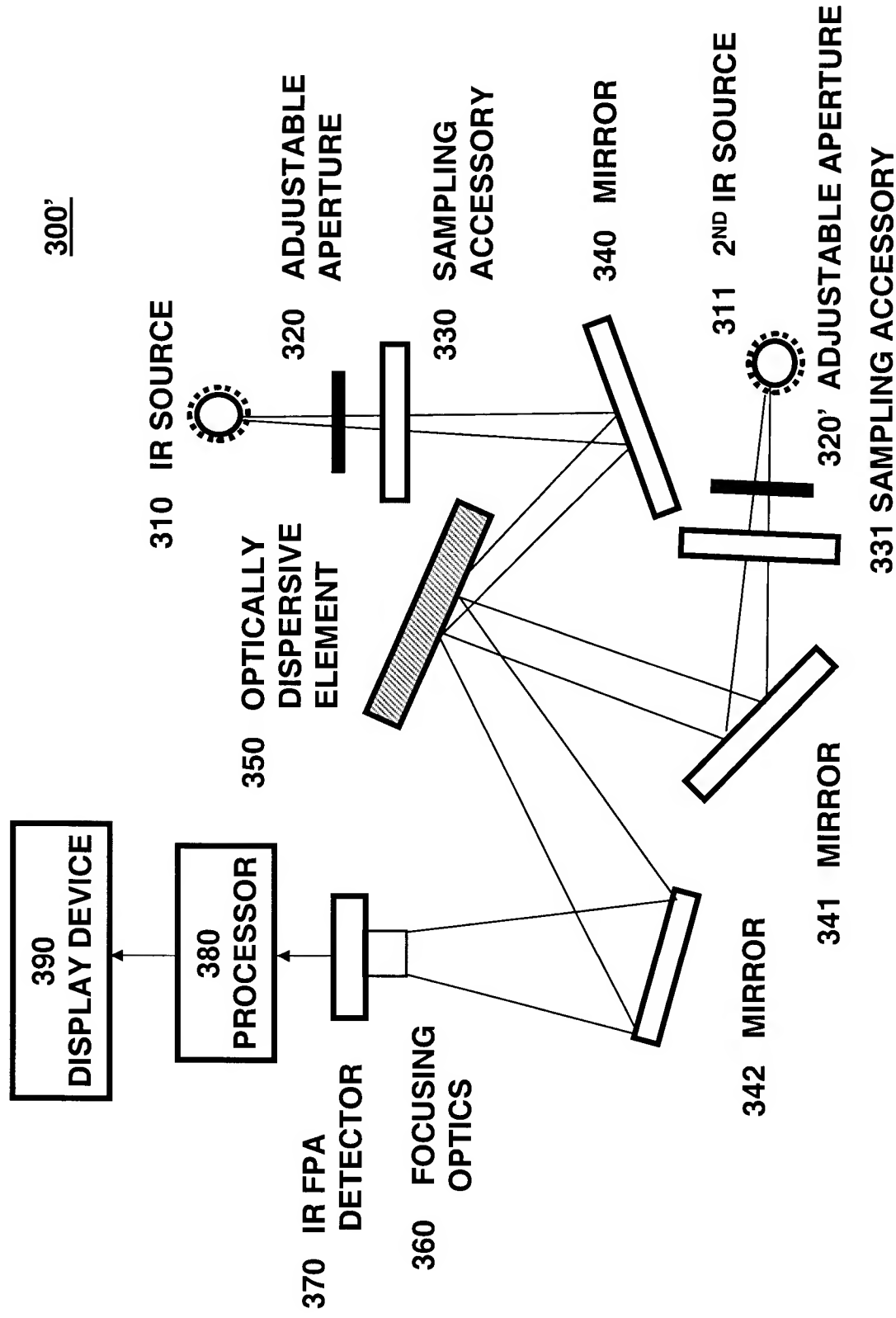


FIG. 3C

SPATIAL MULTIPLEXING OF MULTIPLE BEAMS

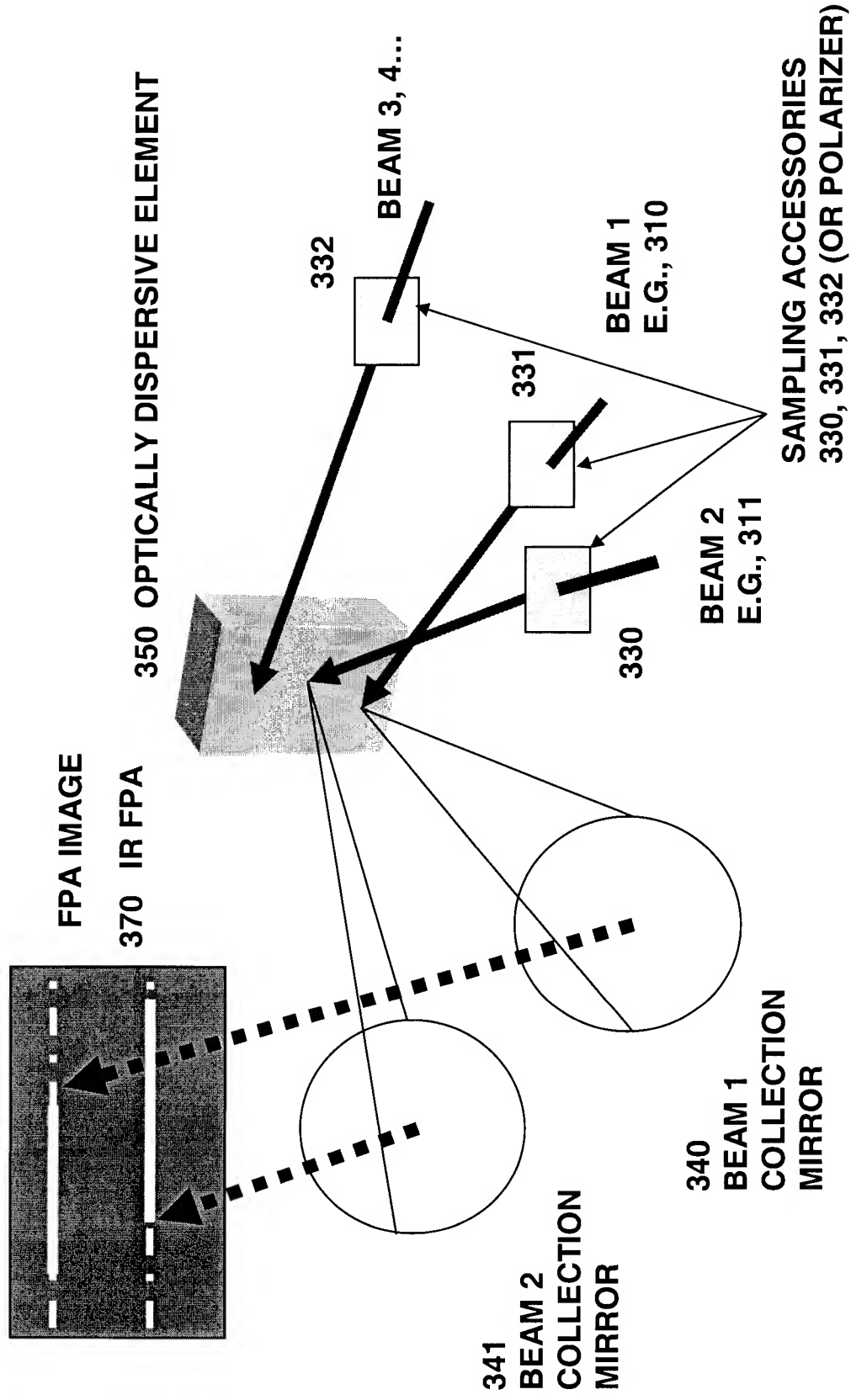


FIG. 3D
SAMPLING WITH POLARIZED LIGHT

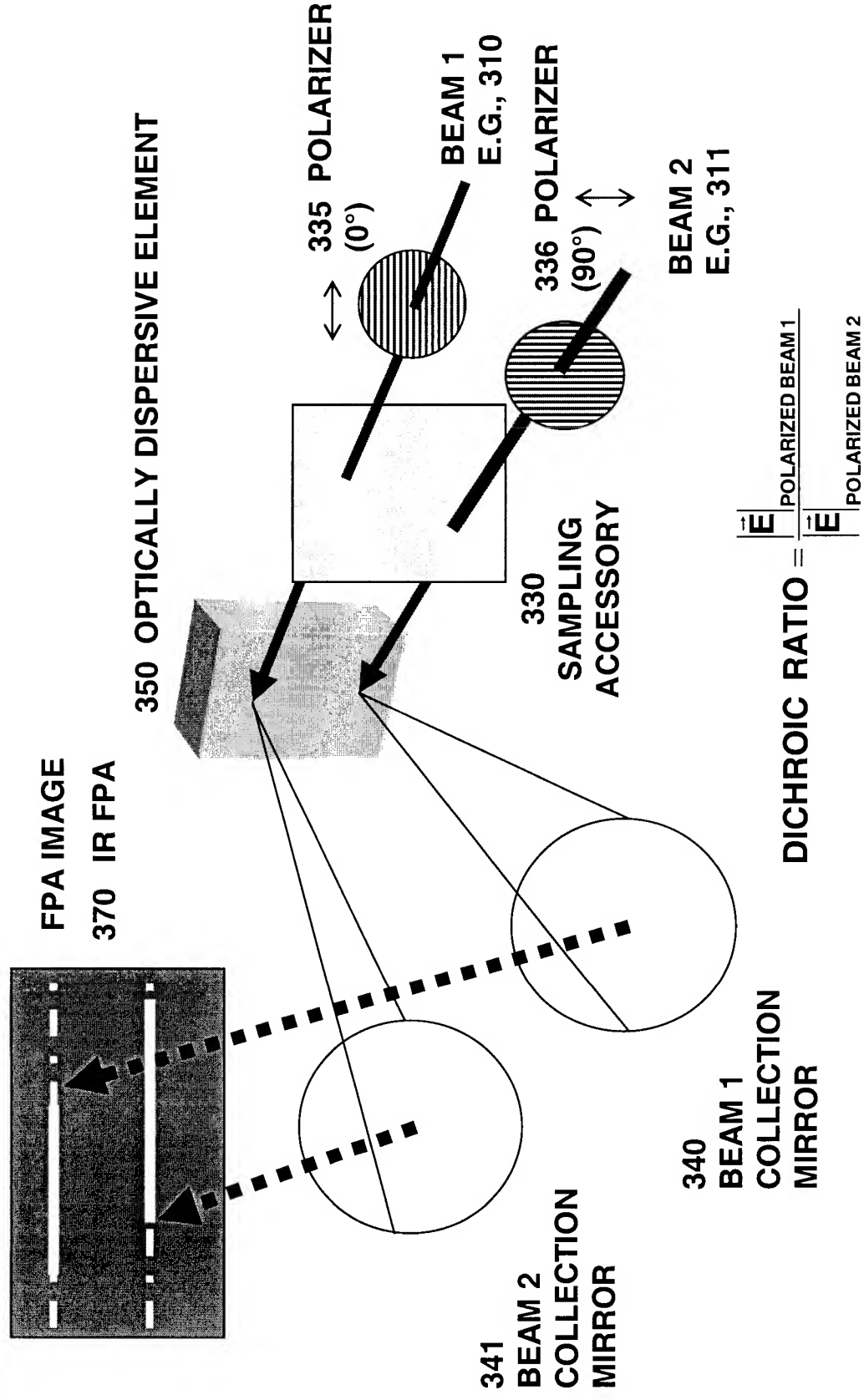


FIG. 4 – PELLIN-BROCA PRISM IMPLEMENTATION

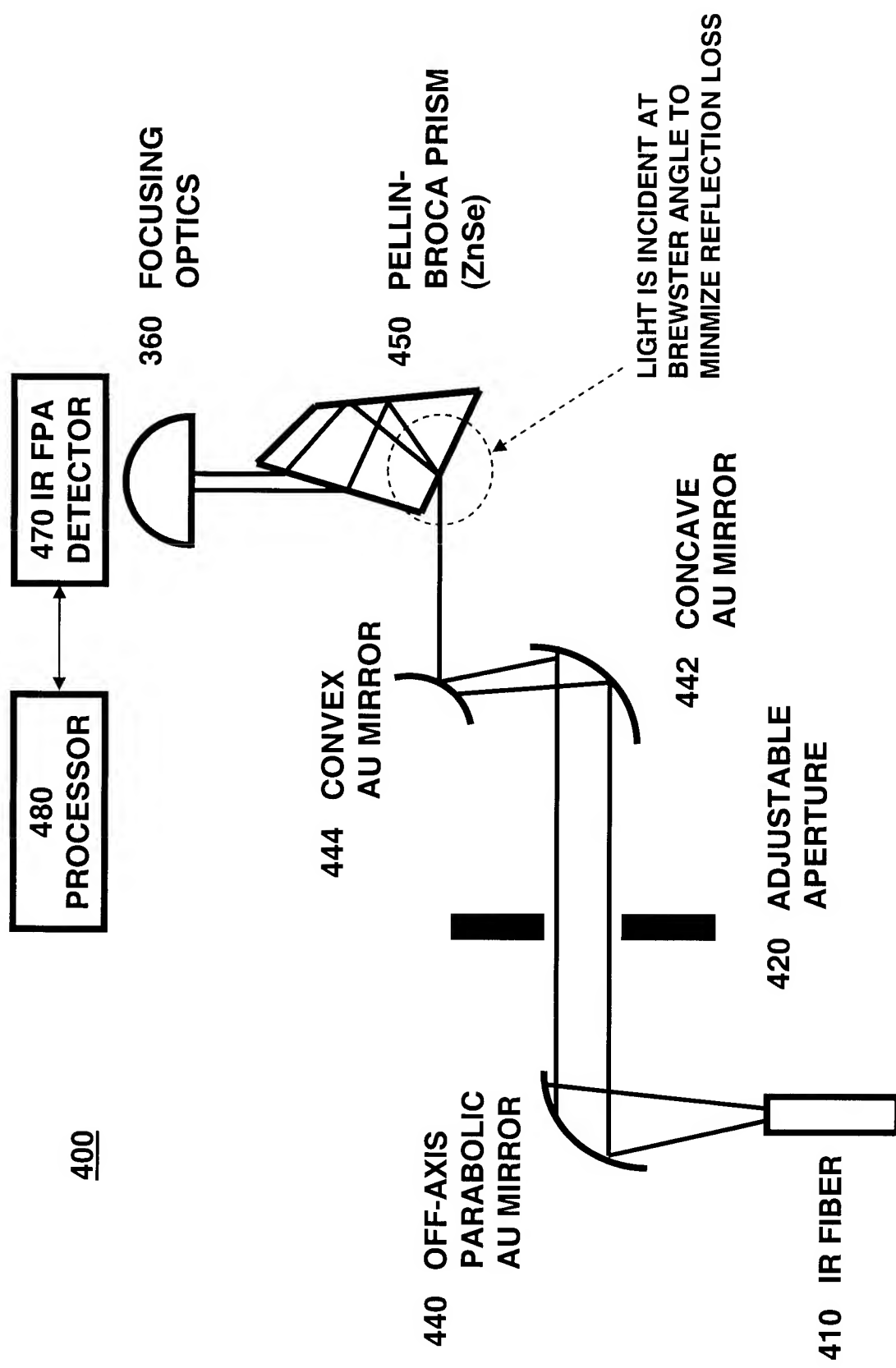
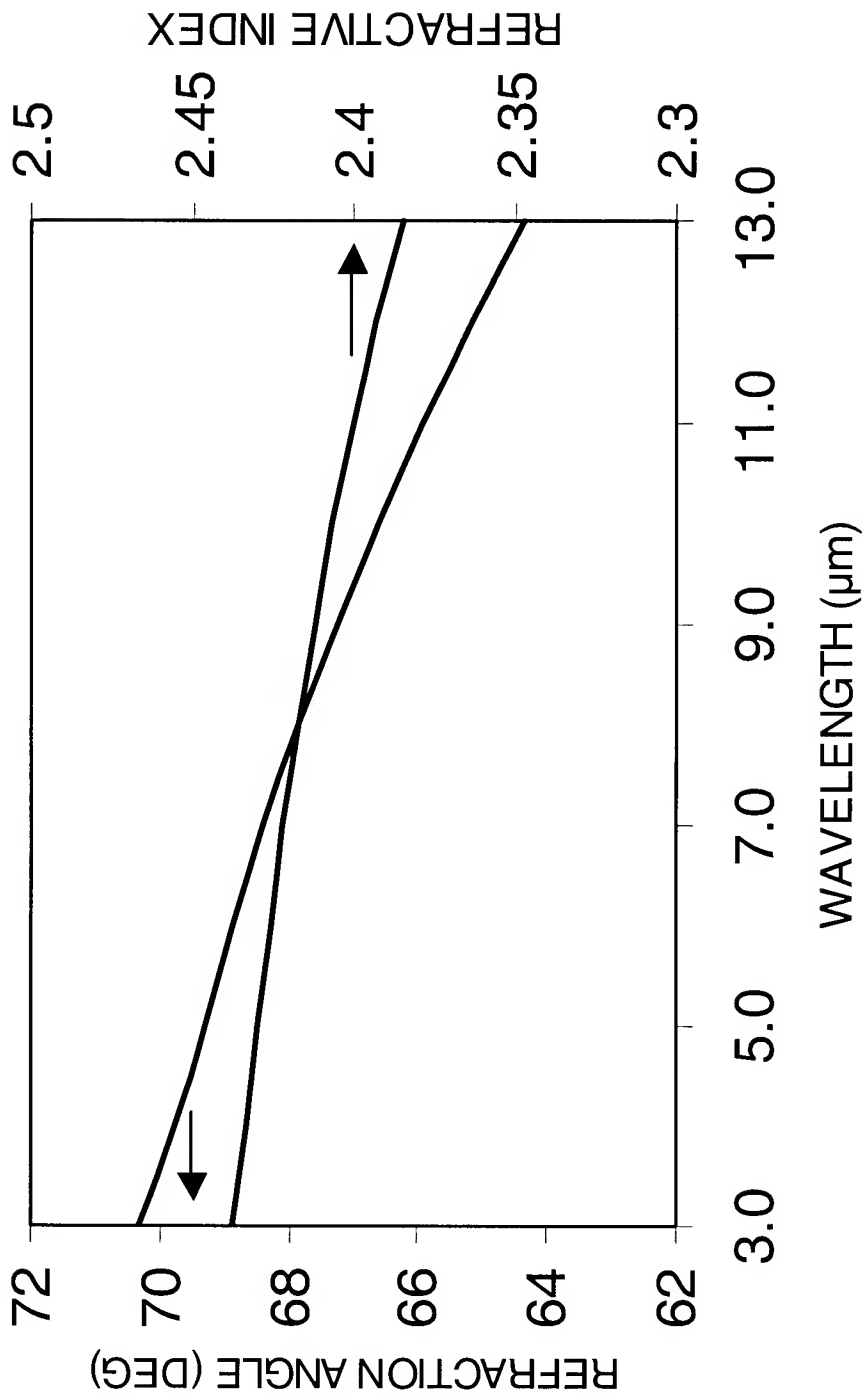


FIG. 5
ZnSe REFRACTIVE INDEX DISPERSION AND OPTICAL REFRACTION



PELLIN-BROCA PRISM IMPLEMENTATION

FIG. 6
CONFIGURATION FOR REAL-TIME BACKGROUND CORRECTION

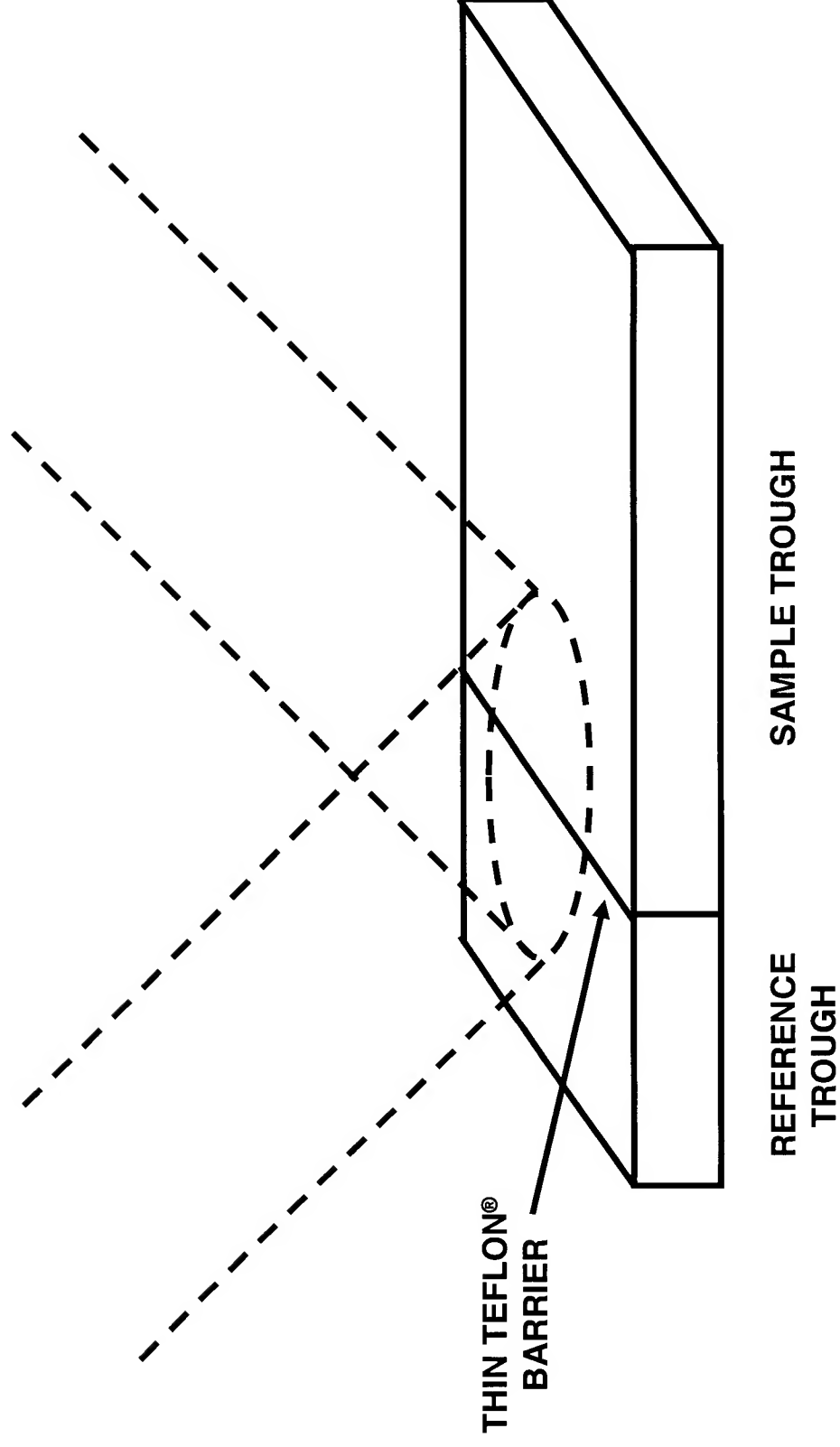


FIG. 7
MEASURING MULTIPLE ANGLES OF INCIDENCE

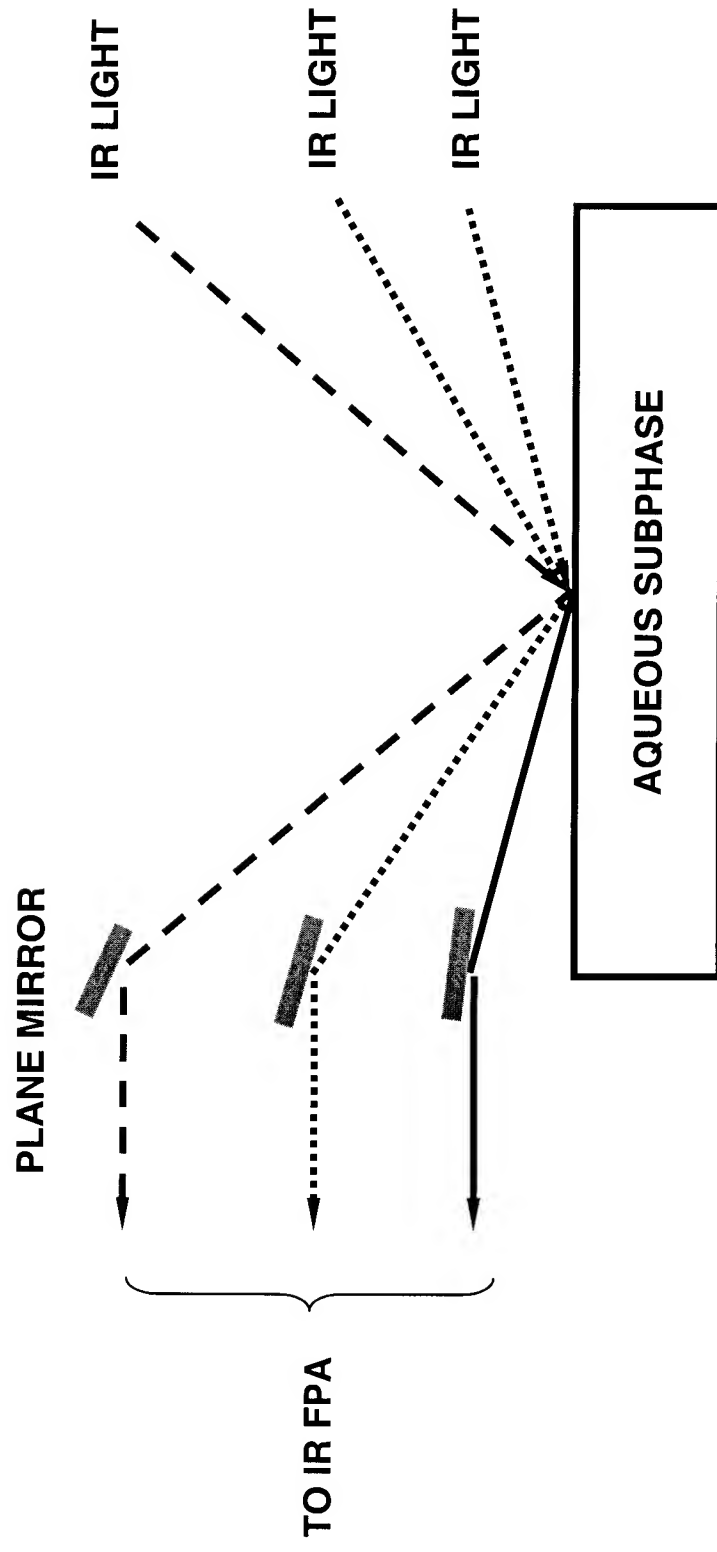


FIG. 8
STRATIFIED THREE-PHASE SYSTEM

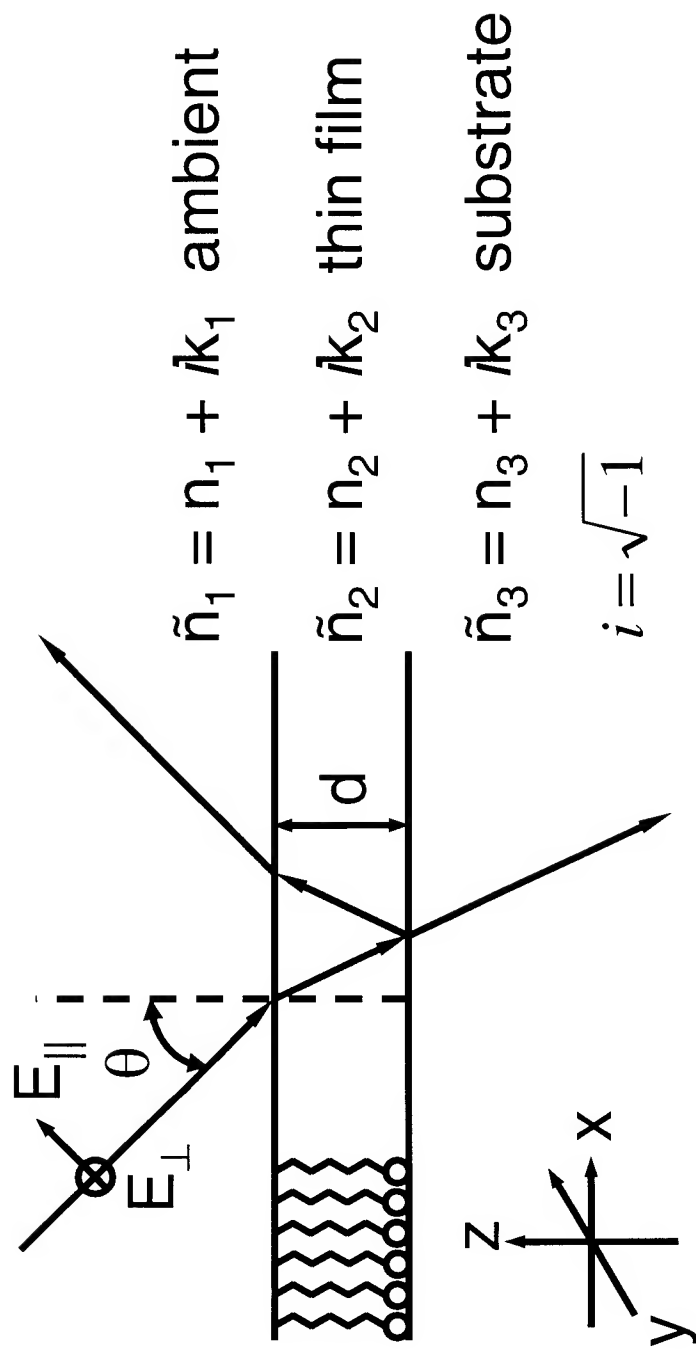


FIG. 9
REFLECTION/REFRACTION MEASUREMENT FOR DETERMINING
OPTICAL CONSTANTS OF A THIN FILM

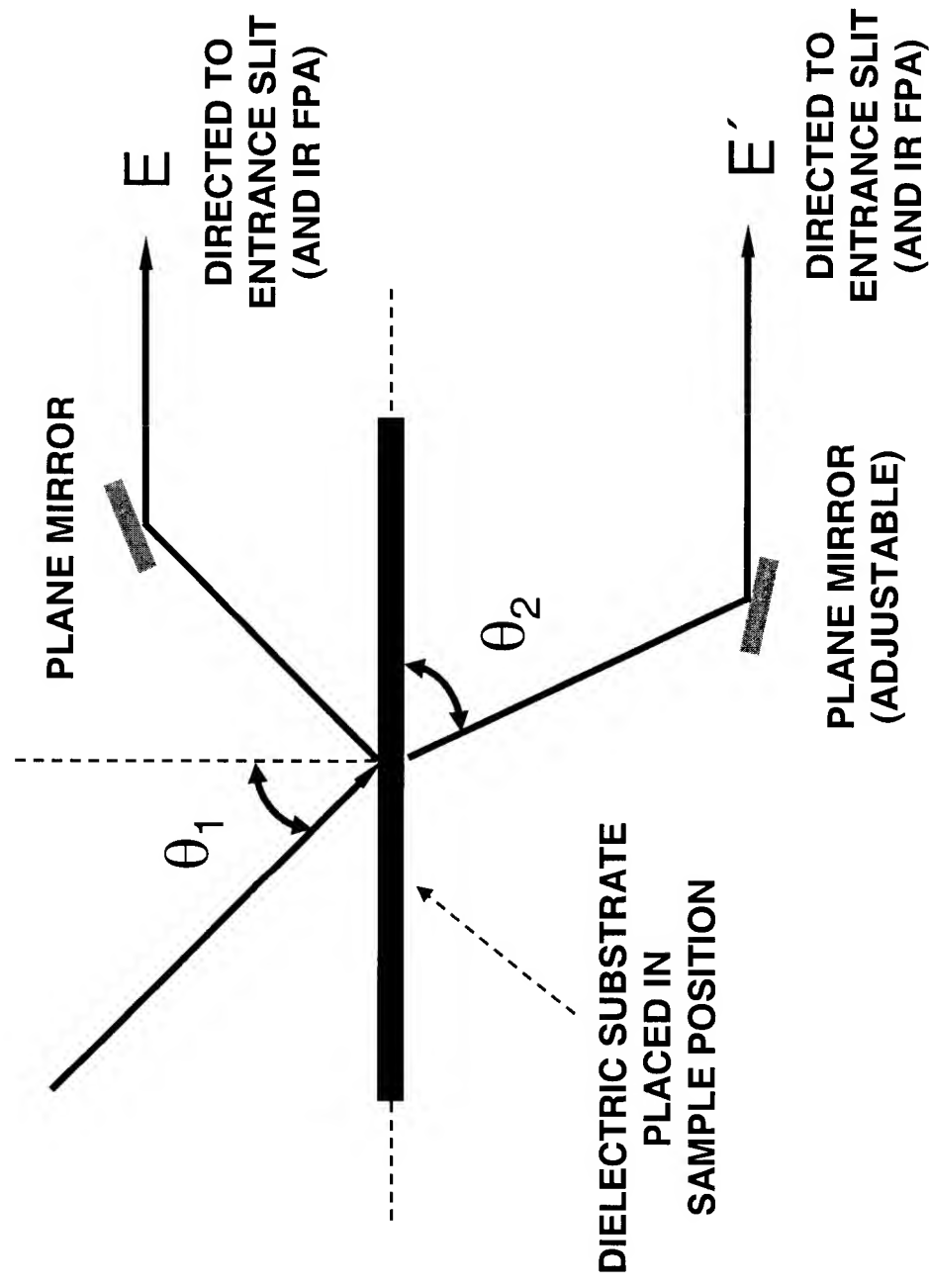


FIG. 10

POLARIZATION MODULATION INFRARED REFLECTANCE-ABSORBANCE
SPECTROSCOPY (CONVENTIONAL PM-IRRAS USED WITH FTIR)

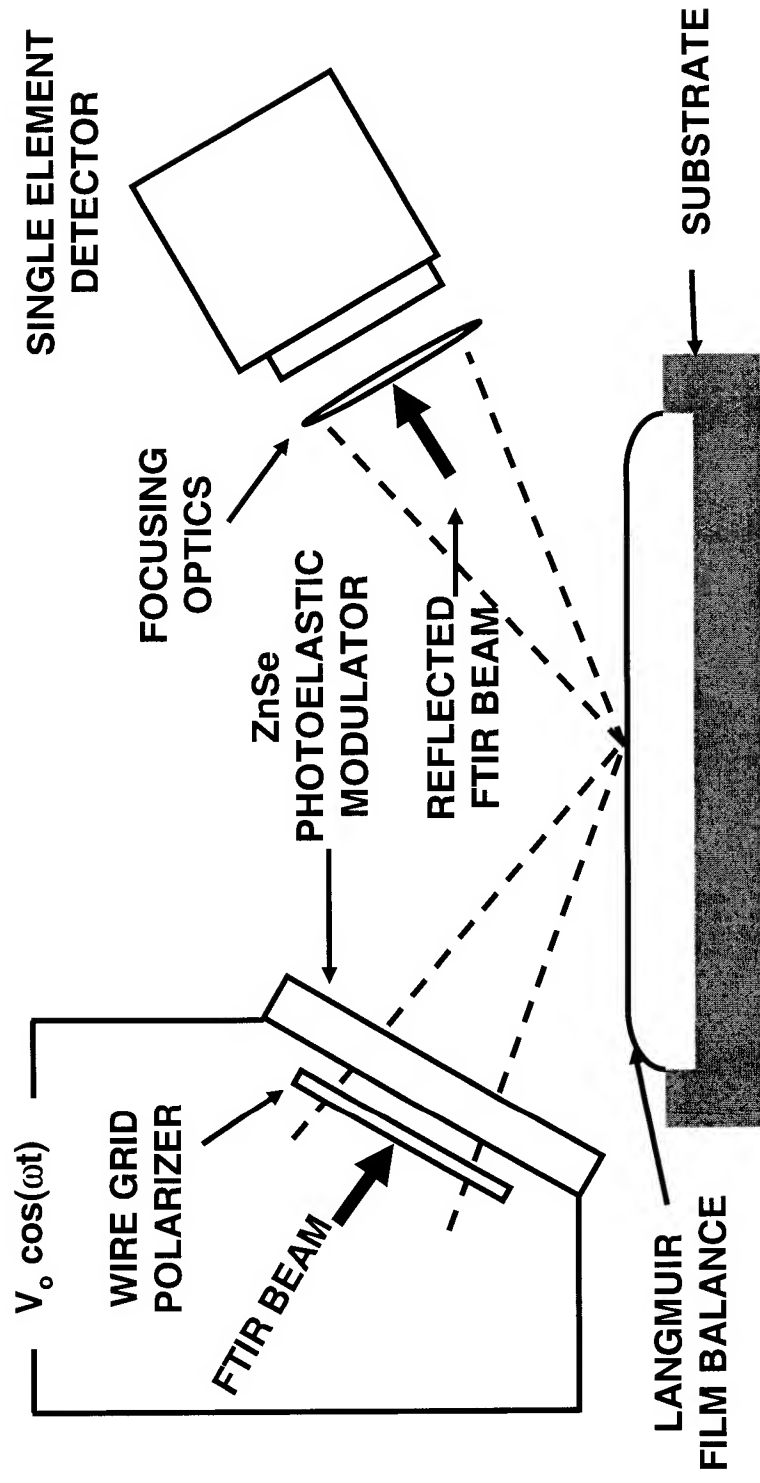


FIG. 11
PLANAR ARRAY INFRARED REFLECTANCE-ABSORBANCE
SPECTROSCOPY (PA-IRRAS)

